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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/748,936	12/30/2003	Seung Hoon Lee	SAM-0487 1922		
7590 12/22/2004			EXAMINER		
Steven M. Mills			LE, THONG QUOC		
MILLS & ONE Suite 605	LLO LLP	ART UNIT PAPER NUM			
Eleven Beacon Street Boston, MA 02108			2818		
			DATE MAILED: 12/22/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	n No.	Applicant(s)				
Office Action Summary		10/748,936		LEE, SEUNG HOON				
		Examiner	, 	Art Unit				
	•	Thong Q. L	Δ.	2818				
	The MAILING DATE of this communication				dress			
Period for Reply								
THE I - Exter after - If the - If NO - Failu	ORTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATIO is sions of time may be available under the provisions of 37 CFF SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by stately received by the Office later than three months after the mad patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no ever reply within the statut nod will apply and will atute, cause the applic	ort, however, may a reply be time ory minimum of thirty (30) days expire SIX (6) MONTHS from the cation to become ABANDONE	nely filed s will be considered timel the mailing date of this or D (35 U.S.C. § 133).	y. ommunication.			
Status								
1)[Responsive to communication(s) filed on			•				
2a) <u></u> ☐								
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4) Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-6 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.								
Applicati	on Papers				•			
• —	The specification is objected to by the Exam		_					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachmen	t(s)							
1) Notice 2) Notice 3) Information	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB r No(s)/Mail Date	3/08)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate	O-152)			

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DETAILED ACTION

1. Claims 1-6 are presented for examination.

Information Disclosure Statement

- This office acknowledges receipt of the following items from the Applicant:
 Information Disclosure Statement (IDS) filed on 12/30/2003.
- 3. Information disclosed and list on PTO 1449 was considered.

Priority

4. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000.

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Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

6. Claims 1-6 are rejected under 35 U.S.C. 102(e) as being anticipated by Inaba et al. (U.S. Patent No. 6,650,590).

Regarding claim 1, Sugawara discloses a main word line driver circuit (Figure 6, DR4) of a semiconductor memory device, the circuit generating main word line signals (MWL) enabling a plurality of main word lines, respectively, comprising:

a voltage supply unit (Figure GWD) which supplies a first voltage to a node and then supplies a second voltage higher than the first voltage (Vii/Vnn, Column 1, lines 40-50, Column 3, lines 10-15); and

a plurality of output units (Figure 6, MRD,DR4) which receive the first voltage supplied to the node and generate the respective main word line signals (MWL).

Regarding claims 2-6 Inaba et al. disclose wherein the first voltage is a negative voltage and the second voltage is the ground voltage (Column 1, lines 40-50, Column 3, lines 10-15, Figures 6,9-10), and wherein the voltage supply unit comprises: a negative voltage supply unit which supplies the negative voltage to the node; and a ground voltage supply unit which supplies the ground voltage to the node (Column 1, lines 40-50), and wherein the negative voltage supply unit supplies the negative voltage to the node in response to activation of decoded row address signals (Figure 6), and wherein one of the decoded row address signals is activated as the supply voltage for a predetermined time interval, and wherein the negative voltage supply unit comprises three NMOS transistors which are serially connected and turned on/off in response to

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the decoded row address- signals, and the negative voltage is connected to an end of the NMOS transistors (Figure 6, DLT3, Column 9, lines 7-46).

Conclusion

7. The presented invention is very similarly with Sugawara (U.S. Patent No. 5,973,963).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thong Q. Le whose telephone number is 571-272-1783. The examiner can normally be reached on 8:00am-5:00pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David C. Nelms can be reached on 571-272-1787. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thong Q. Le Primary Examiner Art Unit 2818

THONG LEF.
PRIMARY EXAMINER